PRACTICE ABSTRACT: 10





Targeted treatment in first season grazing cattle based on pasture risk profiling: deworm your herd only when needed.

Objectives:

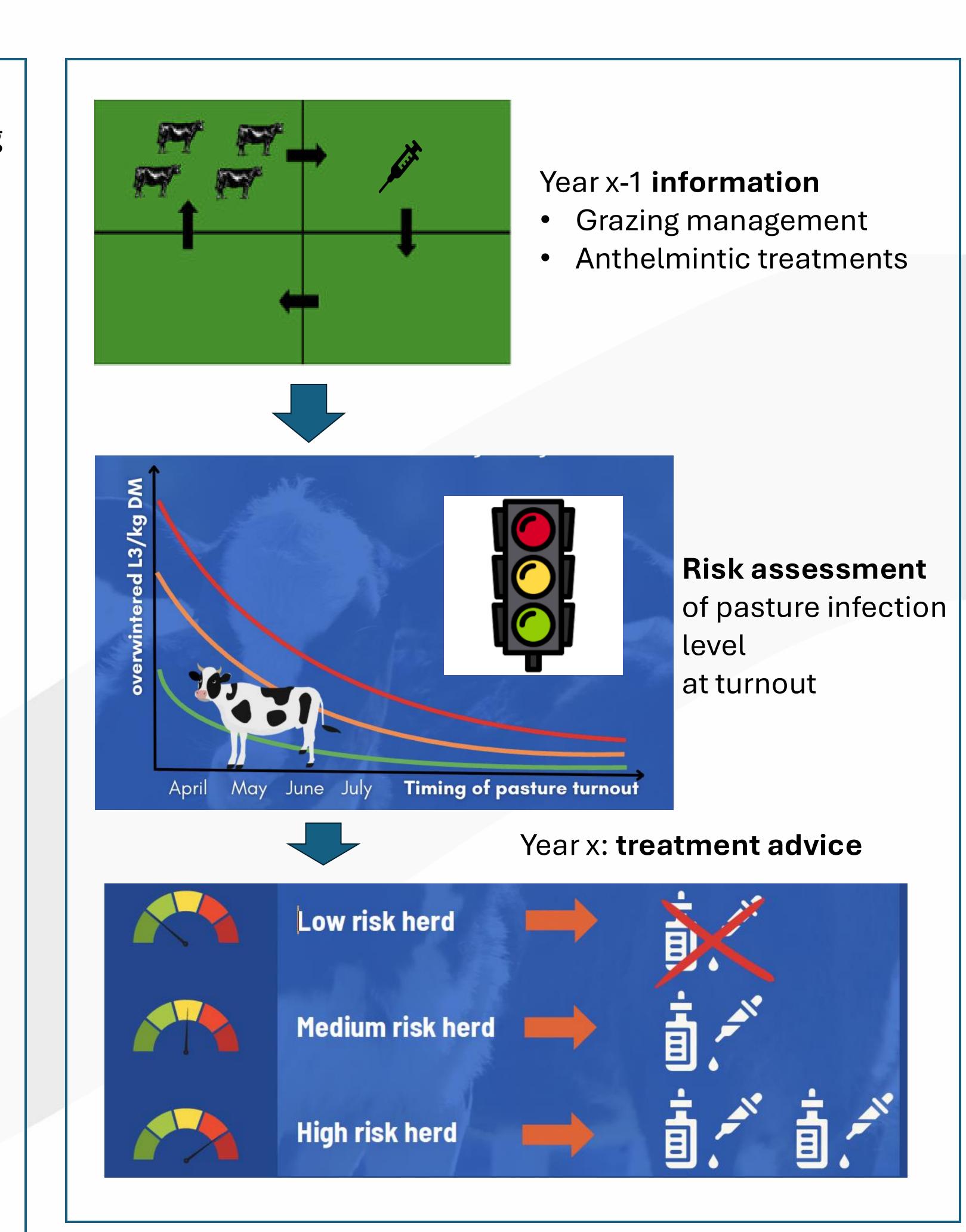
- Implement targeted anthelmintic treatment in first grazing season cattle
 - Avoid excessive usage of anthelmintics (wormers)
 - Obtain effective worm control
 - Maintain productivity (growth)

How? Treatment decision based on a non-invasive decision support tool (Wormtool)

- **Risk assessment** of the pasture infection level based on a short questionnaire before turnout:
 - Grazing management in previous year?
 - Anthelmintic treatments in previous year?
- Treatment advice based on risk profile:
 - Low risk: no treatment or treatment with anthelmintic without persistent efficacy
 - Medium risk: treatment(s) with anthelmintic with persistent efficacy
 - High risk: intensive treatment, e.g. with long-acting anthelmintic
 - More specific treatment options within each risk category to be discussed with veterinarian
 - (Optional: check serum pepsinogen levels at housing to validate the applied worm control measures)
 - Biomarker for worm infection level (Ostertagia)
 - Assumption: grazing management remains unchanged in successive years
 - If the grazing management is different from last year, adapt treatment advice to new situation

Benefits

- Blind' treatments replaced by informed treatment decisions, reduced and/or more effective use of wormers
- No sampling for diagnostics required
- Potential delay of anthelmintic resistance
- Reduced environmental contamination with drug residues



Wormtool combines treatment history with grazing management information to provide farm tailored risk assessment and worm control advice for first grazing season cattle.

